



City of Knoxville

Solar Installation Permitting Application Instructions

Before applying for permits to install a solar array in the City of Knoxville, there are a few steps you need to take to ensure solar installations are allowed on your facility.

1. **Ensure you are a licensed contractor with the City of Knoxville.** If you know you are a licensed contractor with the City of Knoxville, proceed to step 2. If you are not a licensed contractor with the City of Knoxville, please call City of Knoxville Plans Review and Inspections at 865-215-2999 to find out how to become a licensed contractor.
2. **C heck the zoning regulations for the zone in which your building is located.** Are solar installations allowed in the zone in which you are planning to install? To ensure zoning regulations do not restrict solar on your facility, please contact Melvin Wright at 865-215-2995.
3. **Determine which permits you need to apply for**
 - a. **For residential installations**
 - i. If you are roof-mounting your array and there is only one set of shingles on your roof, you only need to apply for an electrical permit* (Instructions and permit included below.)
**If the solar array will cover the majority or entire ty of the roof, you will also need to apply for a building permit.*
 - ii. If you are roof-mounting your array and you have more than one set of shingles on your roof, you need to apply for an electrical permit AND a building permit. Please visit <http://cityofknoxville.org/plansreview/building.asp> to find out how to obtain a building permit.
 - iii. If you are pole-mounting or ground-mounting your system, you need to apply for an electrical permit AND a building permit. Please visit <http://cityofknoxville.org/plansreview/building.asp> to find out how to obtain a building permit.
 - b. **For commercial installations**
 - i. You need to apply for an electrical permit AND a building permit. Please visit <http://cityofknoxville.org/plansreview/building.asp> to find out how to obtain a building permit.

If you have followed the above steps and are ready to complete the electrical permit application, please use the following guide to accurately complete the permit application.

Electrical Permitting Application Instructions for Solar Installation

A copy of the City of Knoxville electrical permit application is included on the next page.

1. **BASE PERMIT FEE** - The base fee for an electrical permit is listed at the top of the **Total** column. As of December 1, 2012, the base fee is **\$35.00**. For solar arrays, there are additional fees which must be added to the base fee. The additional fees are detailed below.
2. **ELECTRIC HEATERS / SOLAR KW** - Under **Electric Heaters/Solar KW**, mark "1" in the **QTY** column next to the row that best fits the size of your system. Then, mark the accompanying fee in the **Total** column. Fees are listed in the **Each** column.
 - a. For example, if your system will be 2.8kW, mark a "1" in the **QTY** column in the same row as "0KW-3.5KW" and "\$2.00" in the **Total** column.
 - b. If your system will be 30kW, mark a "1" in the **QTY** column in the same row as "10.5 KW – 25 KW" and a "5" in the **QTY** column in the same row as "Plus 10 cents per KW over 25." Then, in the total column, mark "\$10.00" in the same row as "10.5 KW – 25 KW" and "\$0.50" in the same row as "Plus 10 cents per KW over 25." Your charge for a 30kW system will be **\$10.50**.
3. **OTHER EQUIPMENT** - Solar arrays are categorized as **Other Equipment** for the purposes of electrical permitting. Write "1" in the **QTY** column next to "Apparatus or Other Special Equipment" under the **OTHER EQUIPMENT** heading. Write "\$10.00" in the **Total** column on the same row.
4. **METER CENTERS** – For each disconnect your solar system will have, there is a \$5.00 charge. Most systems will have 2 disconnects: 1 for AC and 1 for DC. Mark the appropriate quantity in the **QTY** column in the same row as "Each Disconnect". Mark the appropriate total in the **Total** column.

A typical residential solar array electrical permit application fee will be between \$57.00 & \$65.00:

Standard Fee:	\$35.00
Solar KW 4.0kW to 10kW:	\$4.00
Apparatus or Other Special Equipment:	\$10.00
Each Disconnect:	\$10.00 (2 @ \$5.00/ea)
Total	\$59.00

Once you have filled in the appropriate information for your system, follow the directions listed at the bottom of the application. If you have any final questions, please call Plans Review and Inspections at 865-215-2998.



CITY OF KNOXVILLE

DATE: _____

BLDG PERMIT #: _____

APPLICATION FOR PROPOSED ELECTRICAL INSTALLATION AT _____

(STREET ADDRESS WITH NUMBER)

RESIDENTIAL NEW CONSTRUCTION <input type="checkbox"/>			RESIDENTIAL REMODEL / ADDITION <input type="checkbox"/>		
ONE OR TWO FAMILY <input type="checkbox"/>			MULTI-FAMILY <input type="checkbox"/>		
			TEMPORARY METER CENTER (\$30) <input type="checkbox"/>		
QTY	SERVICE SIZE	EACH PRICE	LINE TOTAL		
	0 - 150 Amps	\$ 75.00 PER UNIT			
	151 - 200 Amps	\$ 80.00 PER UNIT			
	201 - 400 Amps	\$100.00 PER UNIT			
<i>Residential Construction - No charge for outlets, switches, fixtures, sub-panels, etc. Continue to sub-total.</i>					

COMMERCIAL CONSTRUCTION <input type="checkbox"/>		SERVICE UPGRADE / MAINT. & REPAIR (DESIGNATE WORK REQUIRED) <input type="checkbox"/>	
Description of Upgrade or Repair Work:			

QTY	ITEM	LINE TOTAL	QTY	LINE TOTAL
	LUMINAIRE (EA) @ \$.50			RECEPTACLE (EA) @ \$.50
	SWITCH (EA) @ \$.50			
ELECTRIC HEATERS / SOLAR KW				
	0 - 3.5kW @ \$2.00			10.5kW - 25kW * @ \$10.00
	4kW - 10kW @ \$4.00			* Additional kW over 25 (EA) @ \$.10
ELECTRIC APPLIANCES				
	ELECTRIC WATER HEATER (EA) @ \$3.00			ELECTRIC STOVE OUTLET (EA) @ \$3.00
	DRYER OUTLET (EA) @ \$3.00			GASOLINE DISPENSING PUMPS @ \$10.00
TRANSFORMERS / BANKS OF TRANSFORMERS				
	0 - 50 kVA @ \$10.00			100.1 kVA or more @ \$20.00
OTHER EQUIPMENT				
	WELDER, UPS, TRANSFER SWITCH OR OTHER EQUIPMENT (EA) @ \$10.00			
ELECTRIC MOTORS				
	Less than 1 hp @ \$2.00			20.1 hp - 50 hp @ \$5.50
	1 hp - 10 hp @ \$4.00			Greater than 50 hp @ \$6.00
	10.1 hp - 20 hp @ \$5.00			
METER CENTERS & GENERATORS				
	0 - 200 Amps @ \$15.00			DISCONNECT (EA) @ \$5.00
	201 Amps - 800 Amps @ \$50.00			LOAD CENTER (EA) UP TO 100A* @ \$5.00
	801 Amps - 3000 Amps @ \$100.00			*Additional 100A or fraction thereof (EA) @ \$3.00
	3001 Amps - 6000 Amps* @ \$200.00			
	*Additional 100A or fraction thereof (EA) @ \$3.00			
ELECTRIC SIGNS				
	0 - 2000 VA @ \$5.00			
	Greater than 2000 VA @ \$10.00			

SUB-TOTAL	\$ 35.00
BASE PERMIT FEE (Temp Meter Center and Remodel/Addition to One & Two Family Excluded)	
DOUBLE FEE? Yes / No	
TOTAL FEE DUE	

1. Bring this completed application to the City of Knoxville Mechanical Inspections Department, 400 W Main Street, Suite 505, Knoxville, TN 37902, mail to the City of Knoxville Inspections Bureau, Suite 505, Knoxville, TN 37902, fax to 865-215-2627, or email as an attachment to bldginspections@knoxvilletn.gov.
2. This is not a permit to proceed with any of the work indicated above and no Electrical work shall be done in the City of Knoxville until a permit therefore has been issued.
3. Inspections of electrical installations will be conducted with all applicable codes adopted by the City of Knoxville. The 2011 National Electrical Code, City of Knoxville Ordinance 0-38-2010 for Electrical Installations, 2008 State of Tennessee Electrical Code - Chapter 0-780-02-01, & The City of Knoxville Code of Ordinances.
4. The required and first re-inspection of work are covered in the cost of the issued permit. The second re-inspection is subject to a charge of \$25. The third and all subsequent re-inspections are subject to a charge of \$50 per inspection. Payment is required before the inspection will be performed.

Company Name (print)	License Holder's Name (print)	Authorized Signature
Company Phone Number	Contractor's License Number	Trust Account Number